BRUHAT BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE

Name of Work :-Detailed Estimate for Improvements of Drains and Asphalting to 1st cross at CP layout in ward no. 8, Kodigehalli sub division

Estimated Cost :- Rs 11.00 Lakhs

Sl no	Description of item	Unit	No.	L	B/W	D/T/H	Qty.	Rate	Amount
1	KSRRB 300-1. Earthwork excavation by manual means in Hard soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications. MORTH Chapter 3 (Page no 150, Item no. 19.2 of BCSR 2012-13)	Cum							
	For drain desilting		2	286.00	0.45	0.25	64.35		
	For Culvert		1	6.50	1.20	1.20	9.36		
							73.71	**81.00**	**5970.51**
	Basic Rate	75.00							
	Area Weightage @ 8%	6.00							
	Total	**81.00**							
2	Removing B.S. slab of Drain and stacking. (Page no 28, Item no. 5.32 of BCSR 2012-13)	Sqm							
			1	286.00		1.35	386.10		
			Deduct 20% missing Slabs				77.22		
			Net Qty				**308.88**	**44.47**	**13737.25**
	Basic Rate	41.18							
	Area Weightage @ 8%	3.29							
	Total	**44.47**							
3	Refixing stone slabs of drains and pointing in C.M (1:3) (Page no 28, Item no. 5.33 of BCSR 2012-13	Sqm							
	Drain	Considering 80% of Qty vide Item no 2							
							308.88	**63.00**	**19458.33**
	Basic Rate	58.33							
	Area Weightage @ 8%	4.67							
	Total	**63.00**							
4	KSRRB 300-3. Earthwork excavation and foming in embankment by manual means in **Hard Soil** with initial lead upto 15 m. and lift of 1.5m. (When earth is taken from bank cutting or from borrow pits) including breaking of clods, spreading to required line and level, forming, and cost of all labour complete as per specifications. (excluding watering and compaction of earth) MORTH Chapter 3 (Page no 150, Item no. 19.4 of BCSR 2012-13)	Cum							
			1	286.00	6.50	0.20	371.80		
							371.80	**112.32**	**41760.58**
	Basic Rate	104.00							
	Area Weightage @ 8%	8.32							
	Total	**112.32**							
5	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete. (Page no 28, Item no. 5.31.1 of BCSR 12-13)	Sqm							
	7.5 cms thick	Considering20% of Qty vide Item no 2							
							77.22	**315.36**	**24352.10**
	Basic Rate	292.00							
	Area Weightage @ 8%	23.36							
	Total	**315.36**							

6	KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications.MORTH Specification No. 406 (Page no 167, Item no. 20.18 of BCSR 12-13)	Cum							
	For Road		1	286.00	6.50	0.15	278.85		
	For BWSSb Trench		1	200.00	0.90	0.15	27.00		
							305.85	**1059.48**	**324041.96**
	Basic Rate	981.00							
	Area Weightage @ 8%	78.48							
	Total	**1059.48**							
7	KSRRB M500-6. Providing and applying primer coat with bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications.MORTH Specification No. 502 (Page no 171, Item no. 21.60 of BCSR 2011-12)	Sqm							
			1	286.00	6.50		1859.00		
							1859.00	**39.64**	**73683.32**
	Basic Rate	36.70							
	Area Weightage @ 8%	2.94							
	Total	**39.64**							
8	KSRRB M500-18. Providing and laying semi dense bituminous concrete25 mm thick with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 5% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.8 complete in all respects as per specifications **25-30 mm compacted thickness with 5% bitumen 80/100 (Grading II)** (Page no 175, Item no. 21.20.1 of BCSR 2012-13)	Cum							
			1	286.00	6.50	0.025	46.48		
							46.48	**8829.00**	**410327.78**
	Basic Rate	8175.00							
	Area Weightage @ 8%	654.00							
	Total	**8829.00**							
9	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound2.5 mm thick including reflectorising glass beads at 250 gms per sqmarea, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications.MORTH Specification No. 803 (Page no 194, Item no. 24.15 of BCSR 2012-13)	Sqm							
			2.0	286.00	0.10		57.20		
							57.20	**429.84**	**24586.85**
	Basic Rate	398.00							
	Area Weightage @ 8%	31.84							
	Total	**429.84**							

10	KSRRB M800-35. Providing and fixing of road stud 100x 100 mm, die- cast in aluminium, resistant to corrosive effect of salt and grit, fitted with lense reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS: 873 part 4:1973 complete as per specifications (Page no 198, Item no. 24.41 of BCSR 2012-13)	Nos								
								16.00	289.44	4631.04
	Basic Rate	268.00								
	Area Weightage @ 8%	21.44								
	Total	**289.44**								
11	Providing and fixing of retro- reflectorised cautionary, mandatory and informatory sign as per IRC :67 made of high intensity grade sheeting vide clause 800.1.3, fixed over Aluminium sheeting, 1.5 mm thick supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete45 cm x 45 cm x 60 cm, 60 cm below ground level as per approved drawing complete as per specifications. (Page no 192 Item no. 24.2.6 of BCSR 2012-13)	Nos								
								7.00	3205.44	22438.08
	60 x 60 cm square									
	Basic Rate	2968.00								
	Area Weightage @ 8%	237.44								
	Total	**3205.44**								
12	KSRB 4-1.3: Providing and laying in position plain cement concrete of mix M7.5 with OPC cement @ 180kgs, with 40mm and down sze graded granite metal coarse aggregates @ 0.85 cum and fine aggregtes @ 0.57 cum machine mixed machine mixed concrete laid in layers not exceeding 15cms thick well compacted in foundation and plinth including cost of all materials labour HOM of machinery curing complete as per specifications (Page no12, Item no. 4.3 of BCSR 2012-13)	Cum								
	For Culvert		1	6.50	1.20	0.20	1.56			
	Basic Rate	3597.00						1.56	3884.76	6060.2256
	Area Weightage @ 8%	287.76								
	Total	**3884.76**								
13	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal, coarse aggregates @ 0.878cum and fine aggregtes @ 0.459cum with superplastisiser @ 3 lts confirming to IS 9103-1999 Reaffirmed-2008 machine mixed concrete laid in layers not exceeding 15cms thick vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintles, retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. (Page no 13, Item no. 4.11 of BCSR 2012-13)									
	For Culvert		1x2	6.50	1.00	0.30	3.90			
	Bottom		1	6.50	1.20	0.20	1.56			
	Deck Slab		1	6.50	0.75	0.30	1.46			
								6.92	5239.08	36267.53
	Basic Rate	4851.00								
	Area Weightage @ 8%	388.08								
	Total	**5239.08**								

14	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per necificaitons.(P-17 Item No. 4.31 2012-13 SR)	Sqm							
	For Culvert		1x4	6.50	0.90		23.40		
			1	6.50	0.90		5.85		
							29.25	244.08	7139.34
	Basic Rate	226.00							
	Area Weightage @ 8%	18.08							
	Total	244.08							
15	KSRB 4.9.2 : Providing T.M.T. Steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking , placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3. (Page No. 19& Item No. 4.46)	Qtl							
	100 kg/cum		Qty. Vide Item No.13				6.92	7323.48	50696.79
	Basic Rate	6781.00							
	Area Weightage @ 8%	542.48							
	Total	7323.48							
16	KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregates /Sand/ Kanker / Moorum.KSRRB M100-1 : Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications.MORTH Chapter 1 (Page no 197, Item no. 24.41 of BCSR 2011-12)	Cum							
			Qty vide item no 1 & 4				413.49	72.30	29893.31
	Basic Rate	62.20							
	Area Weightage @ 8%	4.98							
	Lead and lift charges for 2 kms Rs2.00 x 1.28 ton/km x 2 kms	5.12							
	Total	72.30							4954.65
17	Miscellaneous & Unforeseen Charges								3975.03
							Total		##########

(Rupees Eleven Lakhs Only)

CERTIFICATE

1 Certified that I have personally inspected the area and prepared the estimate.

2 Certified that the work proposed in this estimate is not including in any other scheme.

3 Certified that the estimate is prepared as per 2012-13 SR of PWD.

4 This works is not split up.

Assistant Engineer

Joint Commissioner
(Yelahanka Zone)
BBMP. Bengaluru-92.

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Kodigehalli Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

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